Sherwin-Williams Site Cleanup
Emeryville, California

Sep 30, 2011

1450 Sherwin Avenue, Emeryville, CA

This is a weekly summary of site activities and perimeter air monitoring starting for the week of September 19 and going through September 23, 2011. Following is a brief overview of site activities occurring during this period and a discussion of air monitoring results compared to site action levels. Charts and figures are attached which show running averages for Respirable Particulate Matter of 10 micrometers or less (RPM10) running averages; Total Volatile Organic Compounds (TVOC) running averages; and wind speed and direction.

Site Activities
Site activities include:

- Dust, odor and vapor controls (water, odex misters, T-200, Hydroseal and street sweeping) were applied to excavation, stockpiles and exclusion work areas;
- Operation of street sweeper onsite on paved areas; truck exit ramp, Halleck Truck route and on adjacent roads surrounding the site;
- Excavation and stockpiling of non-hazardous, California regulated waste and RCRA waste soil in seventh and eighth excavation layers (saturated zone material elev. -11 to -2);
- Loading of stockpiled non-hazardous material into 81 trucks for transport to local landfills;
- Loading of RCRA hazardous waste into 9 lined railcars for transport to US Ecology in Grandview, Idaho;
- Some backfill materials were moved from the backfill stockpile on the south end of the Site to the north side of the excavation.
- Backfill was placed and compacted in 6 to 12 inch lifts, with the initial lift ranging from 2.5 feet to 3 feet on the bottom of the excavation at elev. -11.
- Compaction tests were performed and reported to meet a minimum 90% of the maximum dry density of the backfill material;
- Excavation dewatering was performed from three primary sumps ranging in elevation -6 to -12. Additional dewatering was performed from trenches and excavation areas by pumping or draining these areas into the primary sumps where the water is pumped into the onsite pre-treatment system. Water levels were measured in site wells on the Rifkin property and on Horton Street on Friday September 23, 2011. Water elevations ranged between elevation 6.2 and 9.89 NAVD88. The water levels in the sumps were maintained on an average of elevation -5 NAVD88. The water level on the bottom of the excavation in the northwest area of the site was elevation -2. Seeps around the site side walls were observed to range between elevation 4 and 6 NAVD88. Treated water from the dewatering system is discharged into the local POTW per the requirements of the Site's EBMUD discharge permit;

- Imported and stockpiled soil for placement as the lower hydraulic conductivity (low K) backfill fill materials. This low K backfill soil was sampled and analyzed for chemical and material specification properties.
- Imported and stockpiled soil for placement as the higher hydraulic conductivity (high K) backfill fill materials. This high K backfill soil was sampled and analyzed for chemical and physical specification properties.
- The existing slurry wall (elev. +8 and below) along the eastern and upgradient area of the excavation continues to remain in place to control water inflow. The area is separated by a diversion ditch on the down gradient toe of the slope. Water is pumped from this diversion ditch into the main dewatering sumps. Removal of this material is schedule for excavation during the first two weeks of October.
- Analytical testing of stockpiled material occurred during the week for characterization of material for disposal;

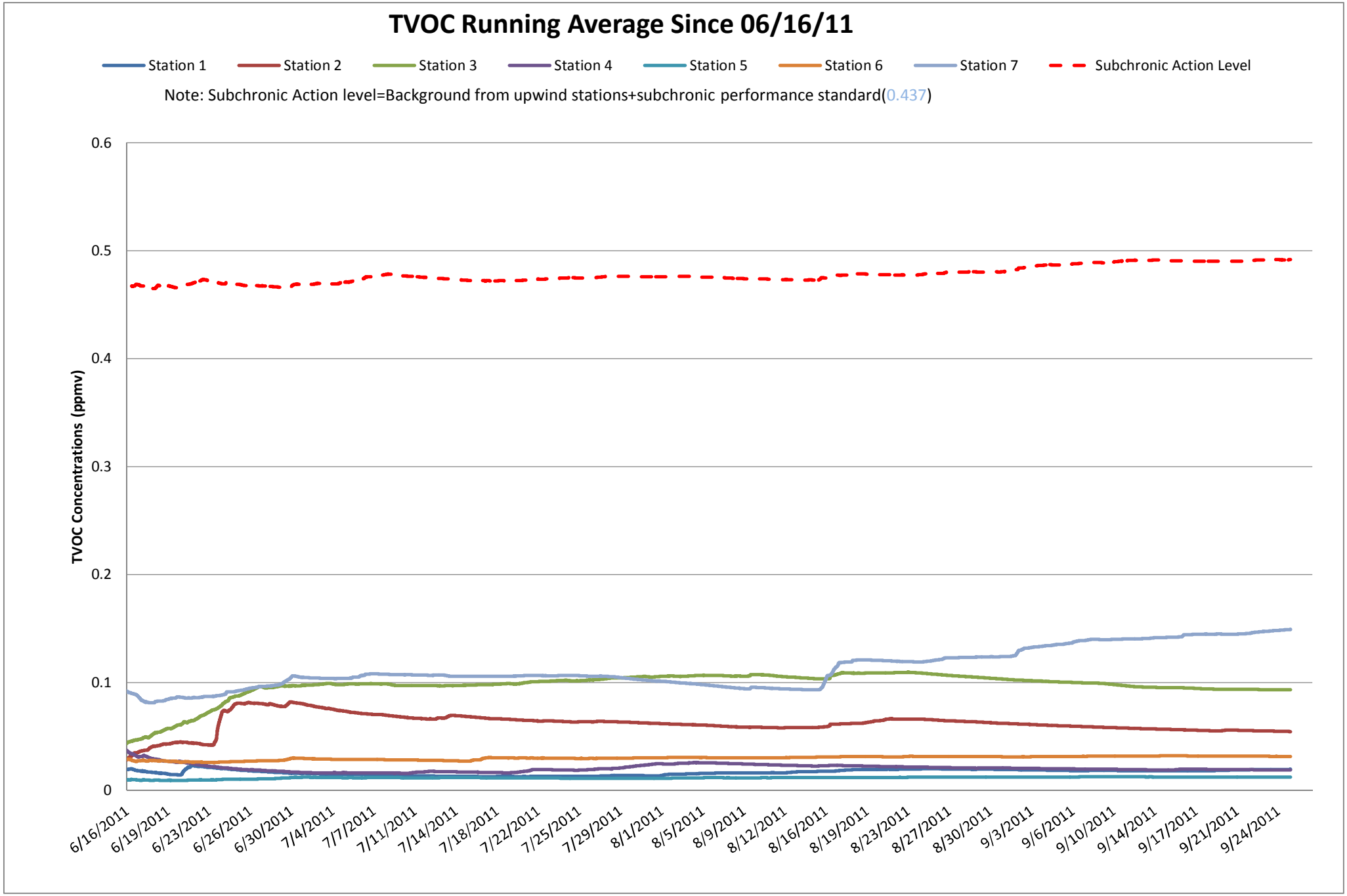
Air Monitoring and Sampling

- Daily calculation of perimeter air action levels was performed, based on background conditions, contributing misting dust controls and level of source material being excavated.;
- Daily calibration of the seven perimeter AMS locations was performed;
- Daily perimeter real time air monitoring at seven AMS locations for RPM10 and TVOCs;
- Daily meteorological data is collected on site and wind speed and direction is calculated in real time to determine upwind and downwind direction. A wind rose for the week is provided below.
- No exceedances of air quality standards occurred during the week. Aerosol particles less than 10 micrometers from the perimeter mister lines are being measured in the dust monitors at the site perimeter. To account for the influence of the misters on the RPM10 levels, a delta value was added to the action level of Air Monitoring Station (AMS) #3 and the station directly downwind to AMS#3. This approach has been validated by air sample collection and analysis. Subsequent 4 hour rolling averages for RPM10 have been below the action levels at all AMSs. Running averages for TVOC and RPM10 since the start of the project continue to be below their respective action levels at all AMSs. Charts for the running average for TVOCs and RPM10 are provided below.

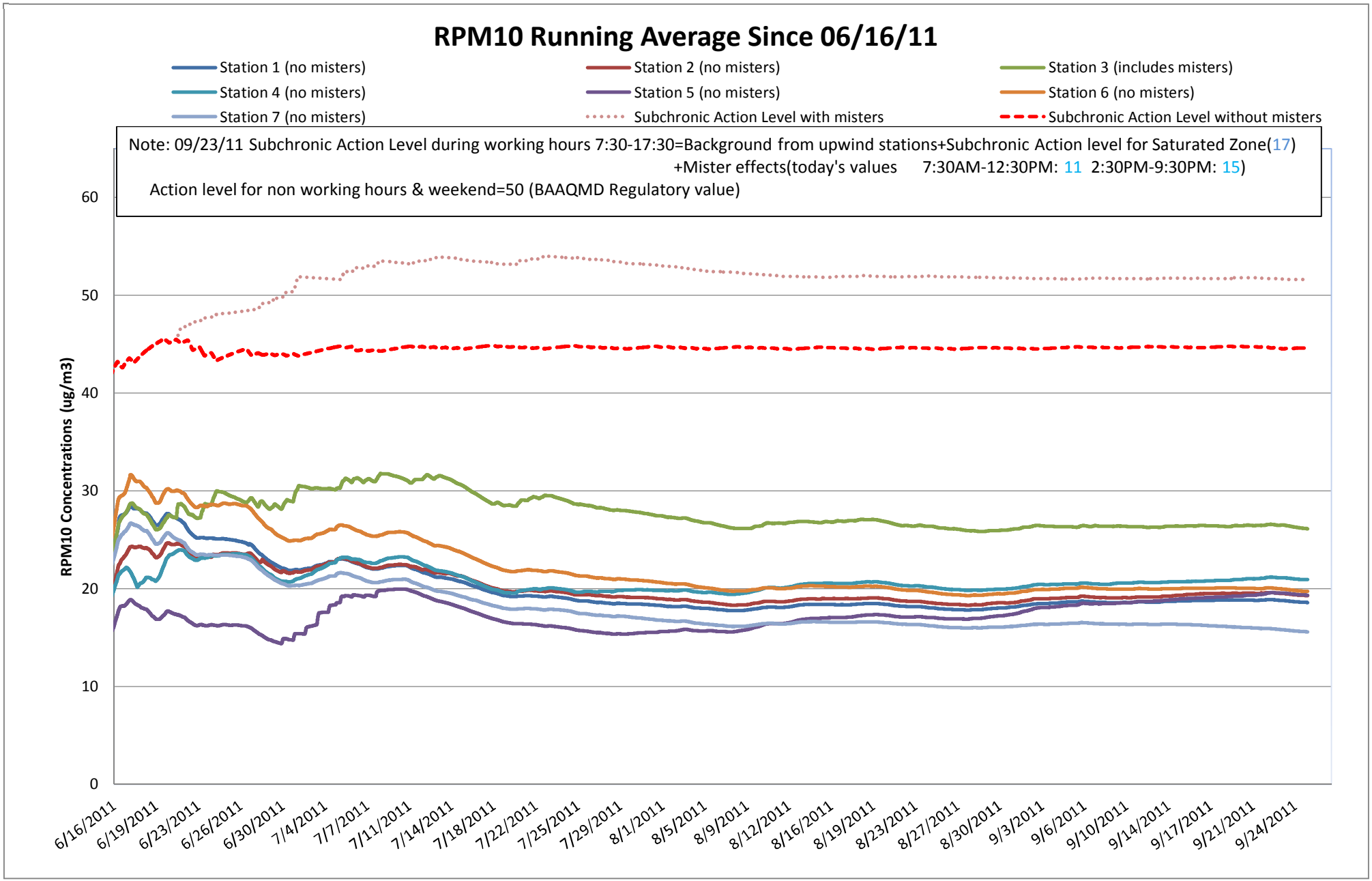
If you have any questions please feel free to contact us via the 24-hour toll-free Community Hotline (866)848-5307.

Camp Dresser & McKee Inc.

TVOC Running Average Since 06/16/11



RPM10 Running Average Since 06/16/11

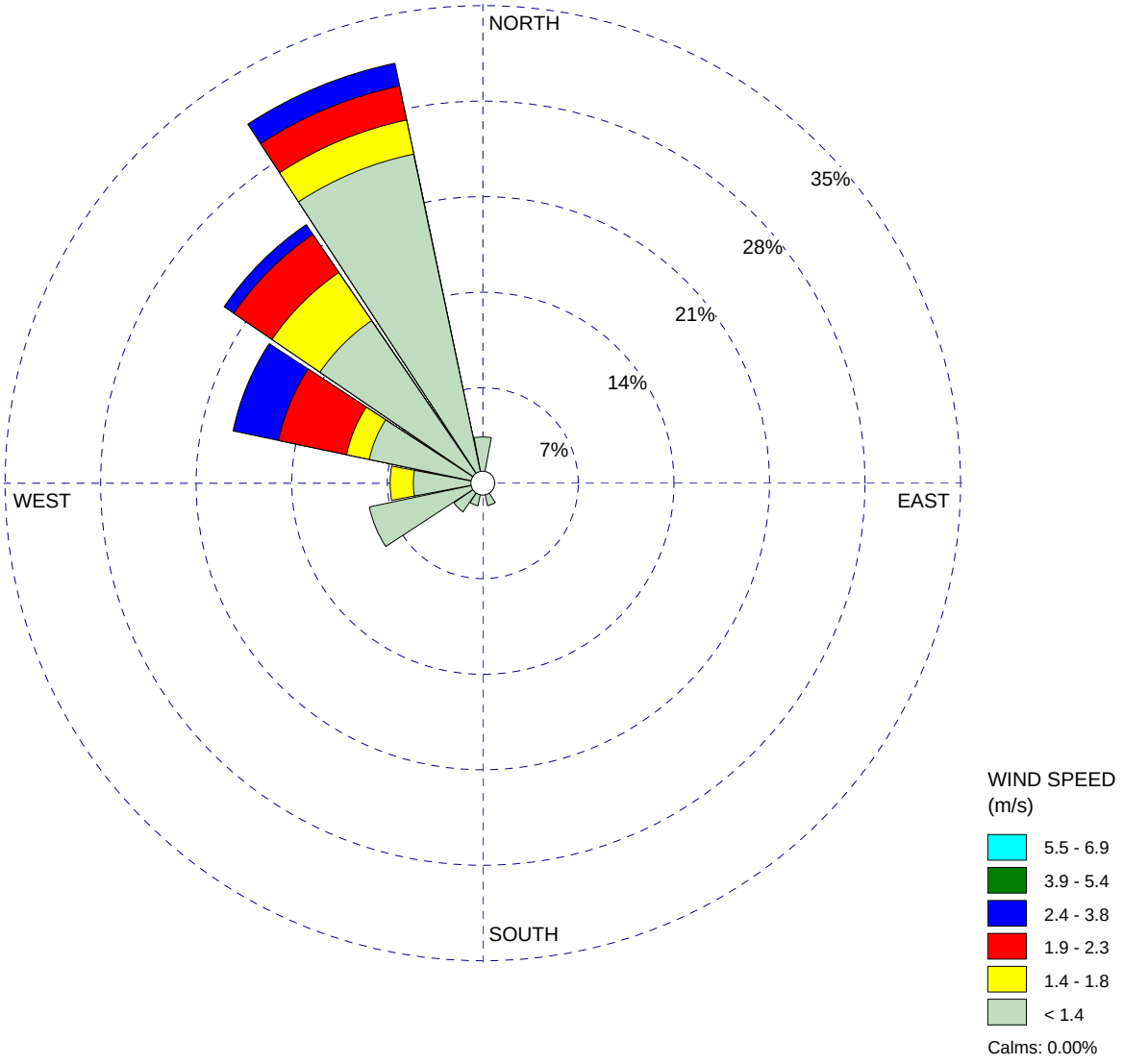


WIND ROSE PLOT:

Station #SW

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 9/19/2011 - 00:00** **End Date: 9/23/2011 - 23:00**	COMPANY NAME:	
		MODELER:	
	CALM WINDS: **0.00%**	TOTAL COUNT: **118 hrs.**	
	AVG. WIND SPEED: **1.24 m/s**	DATE: **9/26/2011**	PROJECT NO.: